



Food ingredients range

Sodium Bicarbonate NaHCO_3 E 500 ii
Sodium Carbonate Na_2CO_3 E 500 i



Ingredients for food, bakery and soft drinks

Humens produces valuable and essential ingredients for the food market. Our product portfolio is based on Sodium Bicarbonate (NaHCO_3 , E 500ii) and Sodium Carbonate (Na_2CO_3 , E 500i).



Food ingredients coming from nature

Sodium Carbonate is first produced through the carbonation of purified natural salt brine. Sodium Bicarbonate is obtained through a complementary carbonation of a filtrated aqueous Sodium Carbonate solution. The quality of the carbon dioxide used in the carbonation is controlled to ensure the purity of our products.

Quality insurance of sodium bicarbonate and sodium carbonate

Sodium Carbonate and Sodium Bicarbonate commercial grades are of high purity. Both sites Novacarb and Novabay offer Sodium Bicarbonate product with FSSC 22000 certification (for more details, please see our product range). These food ingredients comply with the criteria of the Food Chemical Codex. The quality of Sodium Bicarbonate and Sodium Carbonate is closely controlled all along the production process. HACCP methodology is applied to ensure that our food ingredients are safe and to meet our customers' requirements.

Benefits of sodium carbonate

Compared to Sodium Bicarbonate, Sodium Carbonate is alkaline (pH = 11.2) and is used to adjust the pH value. It is also hygroscopic and can consequently be used as a desiccant material, or to hold moisture inside fish fillets or shrimps.

Benefits of sodium bicarbonate

Sodium Bicarbonate (pH = 8.3) is a safe, non hazardous, environment friendly food additive with a slight salty taste. Its chemical features allow various end uses, for instance as an acidity regulator (for a better conservation of the product), a source of carbon dioxide in baking powders (as a leavening agent) and in powder drinks (for the formation of foam)..

Humens and your requirements

High standards of production and well controlled raw materials enable Humens' sodium carbonate and sodium bicarbonate to reach a high purity level with no aluminum and no heavy metals. Our R&D and sales team is available to give you technical support and to help you to choose and test the most suitable grade.



Sodium bicarbonate | NaHCO_3

Humens' sodium bicarbonate commercial grades contain $\geq 99.0\%$ NaHCO_3 and $\leq 0.25\%$ moisture. Typical water activity values are between 0.4 and 0.6. Upon request, few grades (BC EF, BC P and BC GF) can be enhanced with additives, to improve their flowing properties or to make them hydrophobic and delay their dissolution in water or in aqueous formulation (only sold in Europe).



• Sodium Bicarbonate product range overview

Manufacturing site	Sodium bicarbonate grade	Average diameter (μm)	Average density (kg/m^3)	Dissolution time (20°C , 175 rpm)
Novacarb - France	BC EF	38	900	1 min
Novacarb - France	BC P	55	985	5 min
Novacarb - France	BC GF	100	970	5 min 55
Novacarb - France	BC N*	130	1190	6 min 30
Novacarb - France	BC UGC*	280	1140	10 min
Novabay - Singapore	Fine*	100	1080	5 min 55
Novabay - Singapore	Coarse*	270	1140	9 min 50

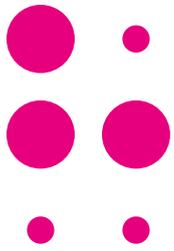
*FSSC 22000 certified

Sodium carbonate | Na_2CO_3

Humens' sodium carbonate commercial grades contain $> 99.5\%$ Na_2CO_3 , $< 0.25\%$ NaCl and $< 1\%$ H_2O .

• Sodium carbonate product range overview

Manufacturing site	Light soda ash grade	Dense soda ash grade	Average diameter (μm)	Average density (kg/m^3)	Dissolution time (20°C , 175 rpm)
Novacarb	CARA P	-	55	660	2 min 50



Humens
the purity makers



Our company

Historical know-how

Humens produces sodium-based mineral compounds. Our company has a production history that goes back more than 160 years at our La Madeleine plant in Laneuveville-devant-Nancy, France. Our products are made from two high purity natural mineral raw materials extracted in the Lorraine region: limestone from our Pagny-sur-Meuse quarry and salt from our Lenoncourt salt field. From local to global player, Humens set up a greenfield sodium bicarbonate unit in Singapore in 2016.

Shared goal for product quality

Humens is a state-of-the-art company with 400 skilled and committed employees. We have been passionate about products purity and satisfying our customers' needs since our industrial activities were launched in 1855.

Humens

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Novacarb

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